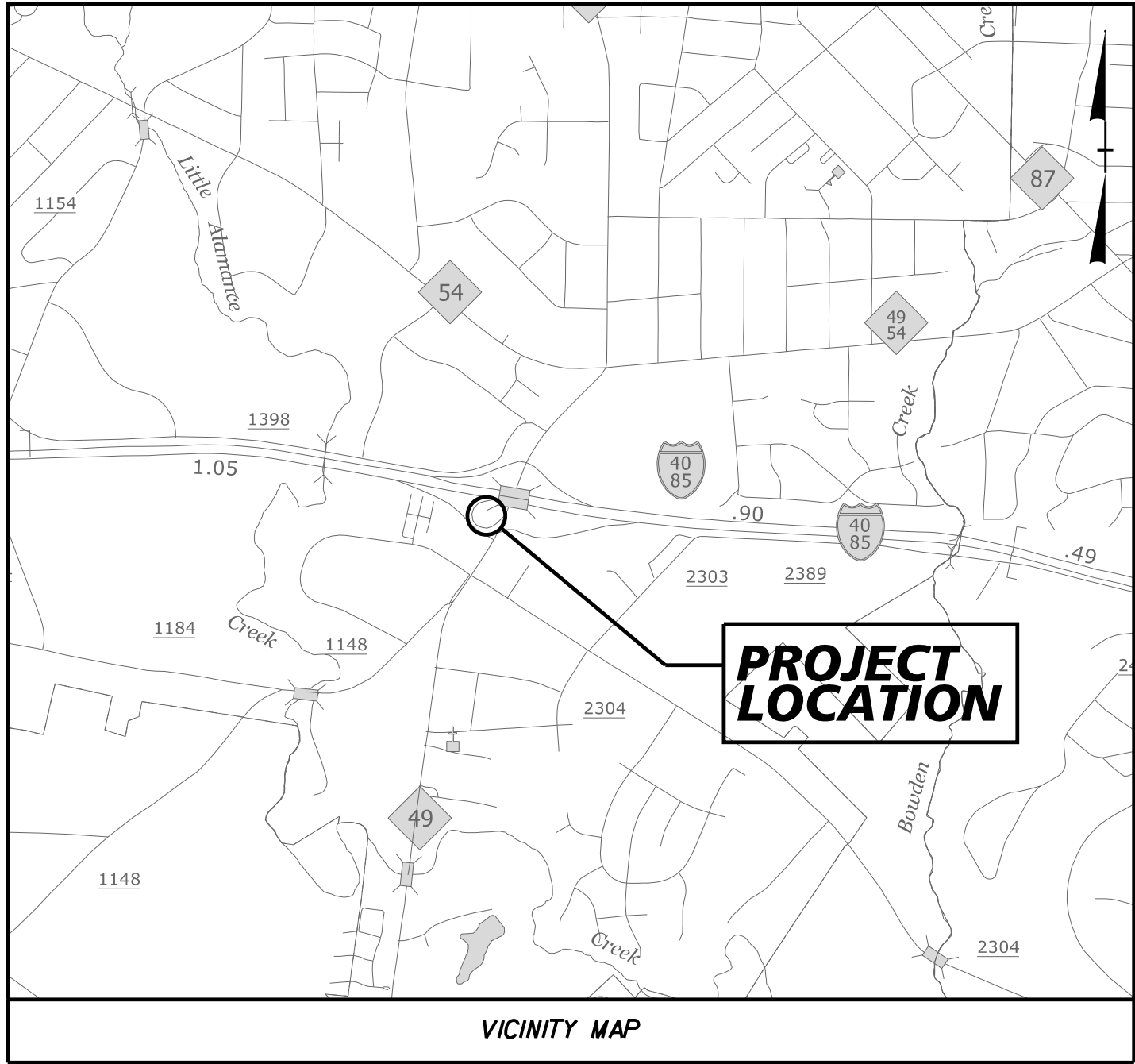


1/28/2016

TIP PROJECT: R-4436GH

CONTRACT: 34625.2.57



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ALAMANCE COUNTY

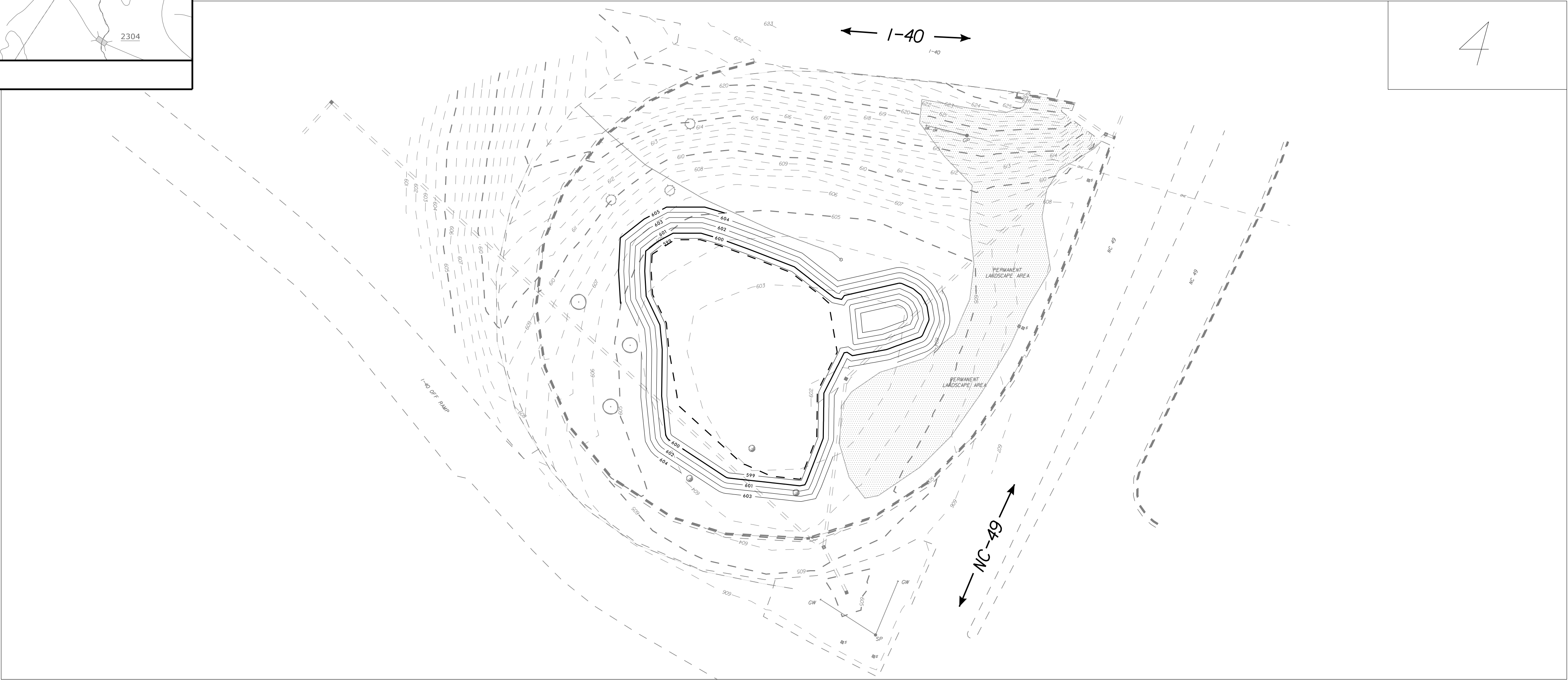
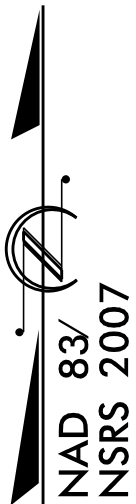
LOCATION: SOUTHWEST LOOP OF I-40 AND NC 49 INTERCHANGE

TYPE OF WORK: GRADING AND STORMWATER BMP

100% PLAN SUBMITTAL

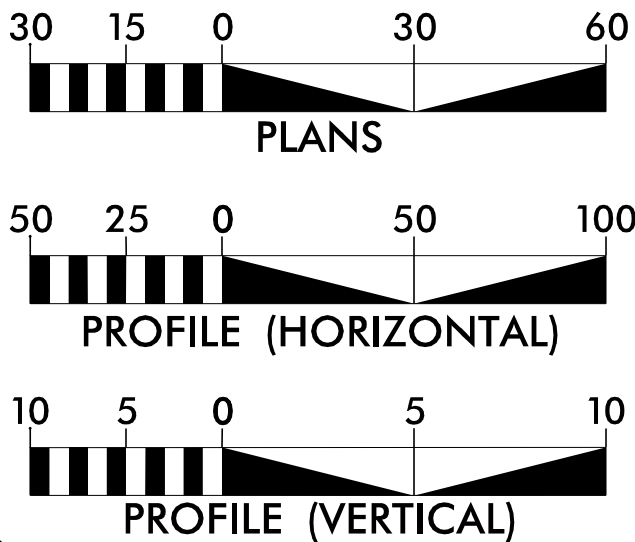
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-4436GH	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34625.2.57	STP-0040(036)		

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



NCDOT CONTACT: BRIAN LIPSCOMB
PROJECT ENGINEER
HYDRAULICS UNIT

GRAPHIC SCALES



DESIGN DATA

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-4436 = 0.038 MILES
TOTAL LENGTH TIP PROJECT R-4436 = 0.038 MILES

PLANS PREPARED FOR
THE NCDOT BY:

Kimley »Horn

2012 STANDARD SPECIFICATIONS

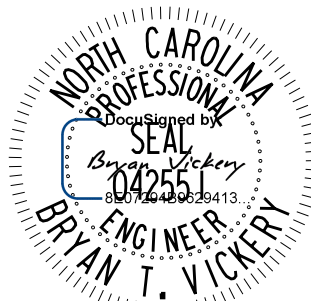
RIGHT OF WAY DATE:

LETTING DATE:
MAY 5, 2016

BRYAN T. VICKERY, P.E.
PROJECT ENGINEER

LARRY D. ROBINSON, P.E.
PROJECT DESIGN ENGINEER

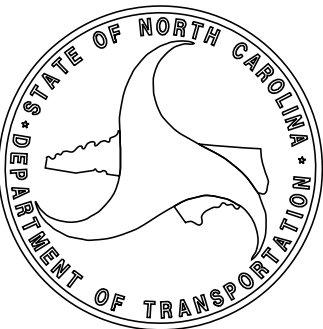
DESIGN ENGINEER



1/29/2016

SIGNATURE:

P.E.



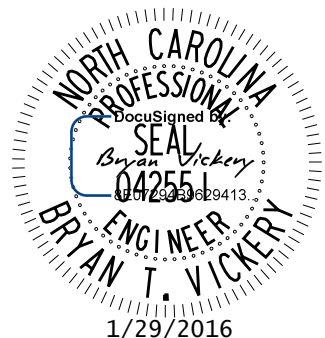
REVISIONS

1/28/2016

PROJECT REFERENCE NO.
R-44366H

SHEET NO.
1-A

ROADWAY DESIGN
ENGINEER



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INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
1-C	SURVEY CONTROL SHEET
2	BMP DETAILS
3	QUANTITIES
3-A	DRAINAGE SUMMARY
4	PLAN SHEET
5	PROFILE SHEET
EC-1	EROSION CONTROL PLAN

2012 SPECIFICATIONS

EFFECTIVE: 01-17-12
REVISED: 07/30/12

GRADE LINE:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II AS SHOWN IN STD NO 200.02.

TRAFFIC CONTROL:

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 40 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR OTHERWISE DIRECTED BY NCDOT DIVISION CONSTRUCTION ENGINEER.

DO NOT CONDUCT MULTI-VEHICLE HAULING OPERATIONS BETWEEN THE HOURS OF 6:00-9:00 AM AND 4:00-7:00 PM MONDAY THRU FRIDAY UNLESS APPROVED BY NCDOT DIVISION CONSTRUCTION ENGINEER.

THE FOLLOWING ROADWAY STANDARDS AND ANY OTHER APPLICABLE STANDARDS WITHIN THE "ROADWAY STANDARD DRAWINGS" HIGHWAY DESIGN BRANCH-N.C.DEPARTMENT OF TRANSPORTATION RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

<u>STD NO.</u>	<u>DESCRIPTION</u>
200.02	METHOD OF CLEARING - METHOD II
840.14	CONCRETE DROP INLET - 12" THRU 30" PIPE
840.66	DRAINAGE STRUCTURE STEPS
840.71	CONCRETE AND BRICK PIPE PLUGS

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale *S.U.E. = Subsurface Utility Engineering

BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin	
Property Corner	
Property Monument	
Parcel/Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential	
BUILDINGS AND OTHER CULTURE:	
Gas Pump Vent or U/G Tank Cap	
Sign	
Well	
Small Mine	
Foundation	
Area Outline	
Cemetery	
Building	
School	
Church	
Dam	
HYDROLOGY:	
Stream or Body of Water	
Hydro, Pool or Reservoir	
Jurisdictional Stream	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Wetland	
Proposed Lateral, Tail, Head Ditch	
False Sump	

RAILROADS:

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	
RIGHT OF WAY:	
Baseline Control Point	
Existing Right of Way Marker	
Existing Right of Way Line	
Proposed Right of Way Line	
Proposed Right of Way Line with Iron Pin and Cap Marker	
Proposed Right of Way Line with Concrete or Granite R/W Marker	
Proposed Control of Access Line with Concrete C/A Marker	
Existing Control of Access	
Proposed Control of Access	
Existing Easement Line	
Proposed Temporary Construction Easement	
Proposed Temporary Drainage Easement	
Proposed Permanent Drainage Easement	
Proposed Permanent Drainage / Utility Easement	
Proposed Permanent Utility Easement	
Proposed Temporary Utility Easement	
Proposed Aerial Utility Easement	
Proposed Permanent Easement with Iron Pin and Cap Marker	

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	
VEGETATION:	
Single Tree	
Single Shrub	
Hedge	
Woods Line	

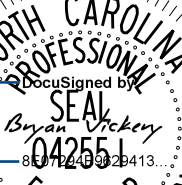
Orchard	
Vineyard	
EXISTING STRUCTURES:	
MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	
UTILITIES:	
POWER:	
Existing Power Pole	
Proposed Power Pole	
Existing Joint Use Pole	
Proposed Joint Use Pole	
Power Manhole	
Power Line Tower	
Power Transformer	
U/G Power Cable Hand Hole	
H-Frame Pole	
U/G Power Line LOS B (S.U.E.*)	
U/G Power Line LOS C (S.U.E.*)	
U/G Power Line LOS D (S.U.E.*)	
TELEPHONE:	
Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
U/G Telephone Cable LOS B (S.U.E.*)	
U/G Telephone Cable LOS C (S.U.E.*)	
U/G Telephone Cable LOS D (S.U.E.*)	
U/G Telephone Conduit LOS B (S.U.E.*)	
U/G Telephone Conduit LOS C (S.U.E.*)	
U/G Telephone Conduit LOS D (S.U.E.*)	
U/G Fiber Optics Cable LOS B (S.U.E.*)	
U/G Fiber Optics Cable LOS C (S.U.E.*)	
U/G Fiber Optics Cable LOS D (S.U.E.*)	

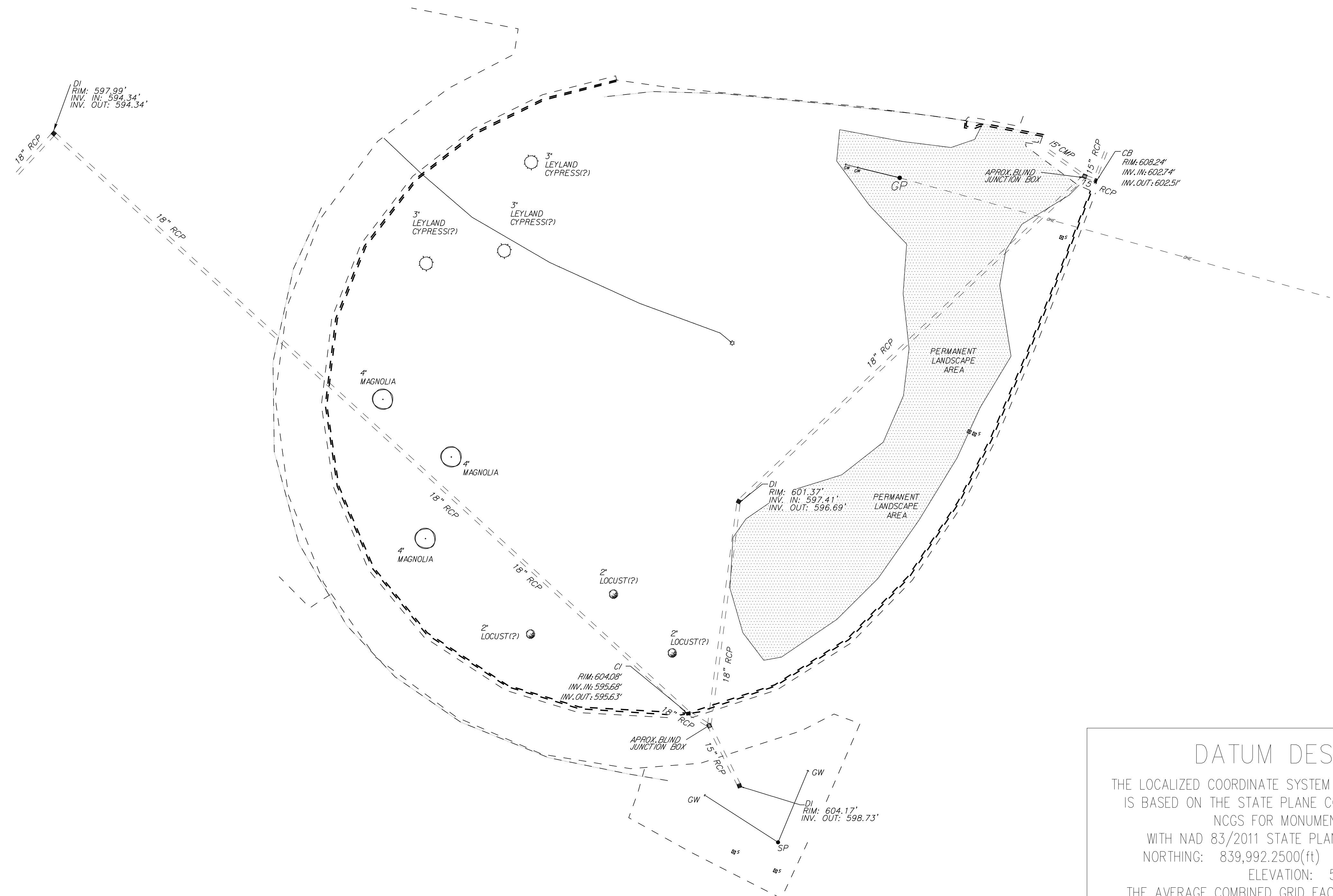
WATER:	
Water Manhole	
Water Meter	
Water Valve	
Water Hydrant	
U/G Water Line LOS B (S.U.E.*)	
U/G Water Line LOS C (S.U.E.*)	
U/G Water Line LOS D (S.U.E.*)	
Above Ground Water Line	
TV:	
TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	
U/G TV Cable LOS B (S.U.E.*)	
U/G TV Cable LOS C (S.U.E.*)	
U/G TV Cable LOS D (S.U.E.*)	
U/G Fiber Optic Cable LOS B (S.U.E.*)	
U/G Fiber Optic Cable LOS C (S.U.E.*)	
U/G Fiber Optic Cable LOS D (S.U.E.*)	
GAS:	
Gas Valve	
Gas Meter	
U/G Gas Line LOS B (S.U.E.*)	
U/G Gas Line LOS C (S.U.E.*)	
U/G Gas Line LOS D (S.U.E.*)	
Above Ground Gas Line	
SANITARY SEWER:	
Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
SS Forced Main Line LOS B (S.U.E.*)	
SS Forced Main Line LOS C (S.U.E.*)	
SS Forced Main Line LOS D (S.U.E.*)	
MISCELLANEOUS:	
Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line LOS B (S.U.E.*)	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc.	
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	
U/G Test Hole LOS A (S.U.E.*)	
Abandoned According to Utility Records	
End of Information	

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RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
R-4436GH	I-C
HYDRAULIC DESIGN ENGINEER 	
1/29/2016	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



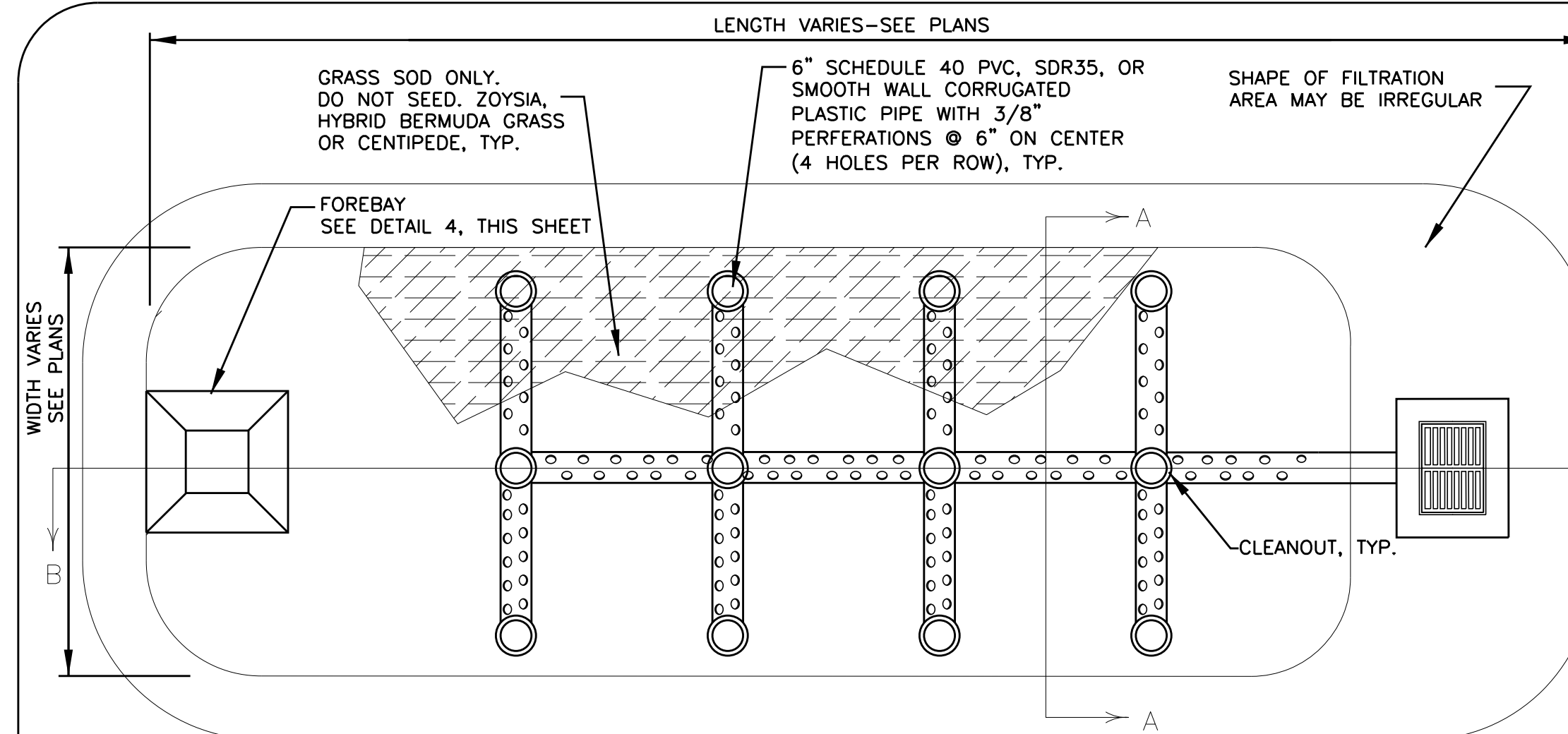
NOTE: DRAWING NOT TO SCALE

DATUM	DESCRIPTION
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THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT
IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY
NCGS FOR MONUMENT "LAMBERT"
WITH NAD 83/2011 STATE PLANE GRID COORDINATES OF
NORTHING: 839,992.2500(ft) EASTING: 1,871,938.3500(ft)
ELEVATION: 581.99(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
(GROUND TO GRID) IS: 0.99994818
THE N.C. LAMBERT GRID BEARING AND
LOCALIZED HORIZONTAL GROUND DISTANCE FROM
"LAMBERT" TO "SANDERS" STATION IS
N 75°50'45" W 1800.97(ft)
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

REVISIONS

11/28/2016



NOTES:

PONDING DEPTH: 24"

UNDERDRAIN TO BE 6" SCHEDULE 40 PVC CORRUGATED PLASTIC PIPE WITH 3/8" PERF. @ 6" O.C., 4 HOLES PER ROW; MINIMUM OF 3" OF GRAVEL OVER PIPES; GRAVEL NOT NECESSARY UNDER PIPES. MINIMUM SLOPE FOR UNDERDRAIN SHALL BE 0.005 FT/FT

UNDERDRAIN PIPES AND CLEANOUTS SHOULD BE LOCATED IN THE QUANTITY AND ELEVATION FOUND ON THE GRADING AND DRAINAGE PLAN (SHEET 4).

CLEANOUT PIPE SHALL BE LOCATED A MINIMUM OF 1.0' FROM THE FILTRATION CELL WALL.

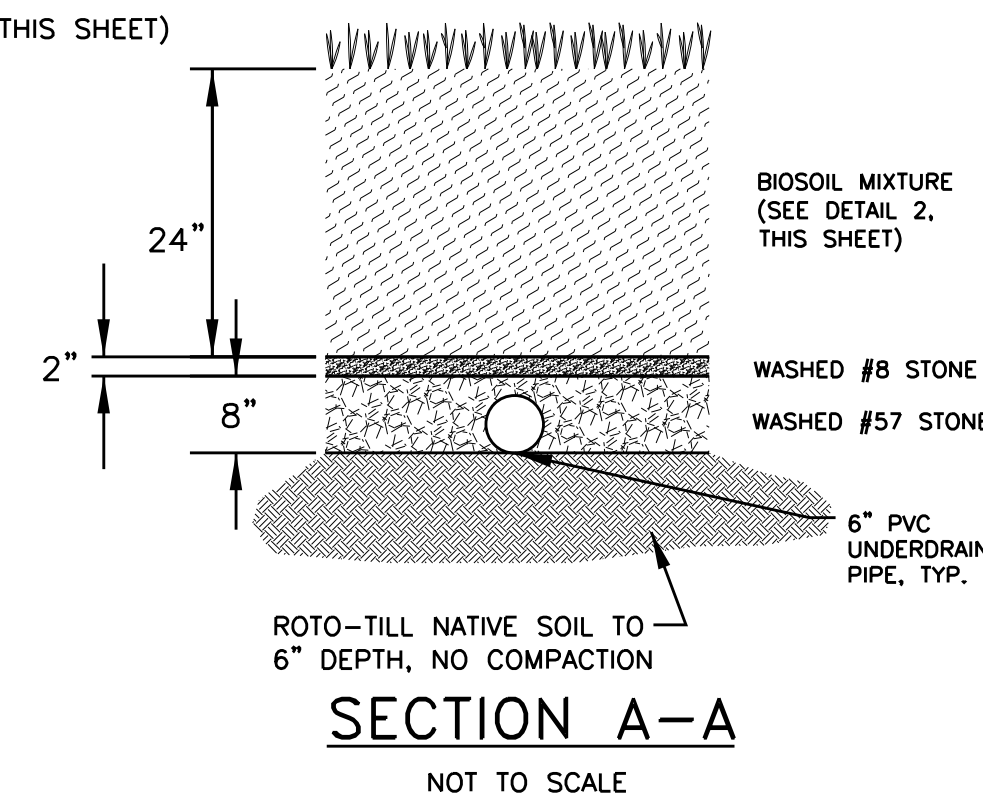
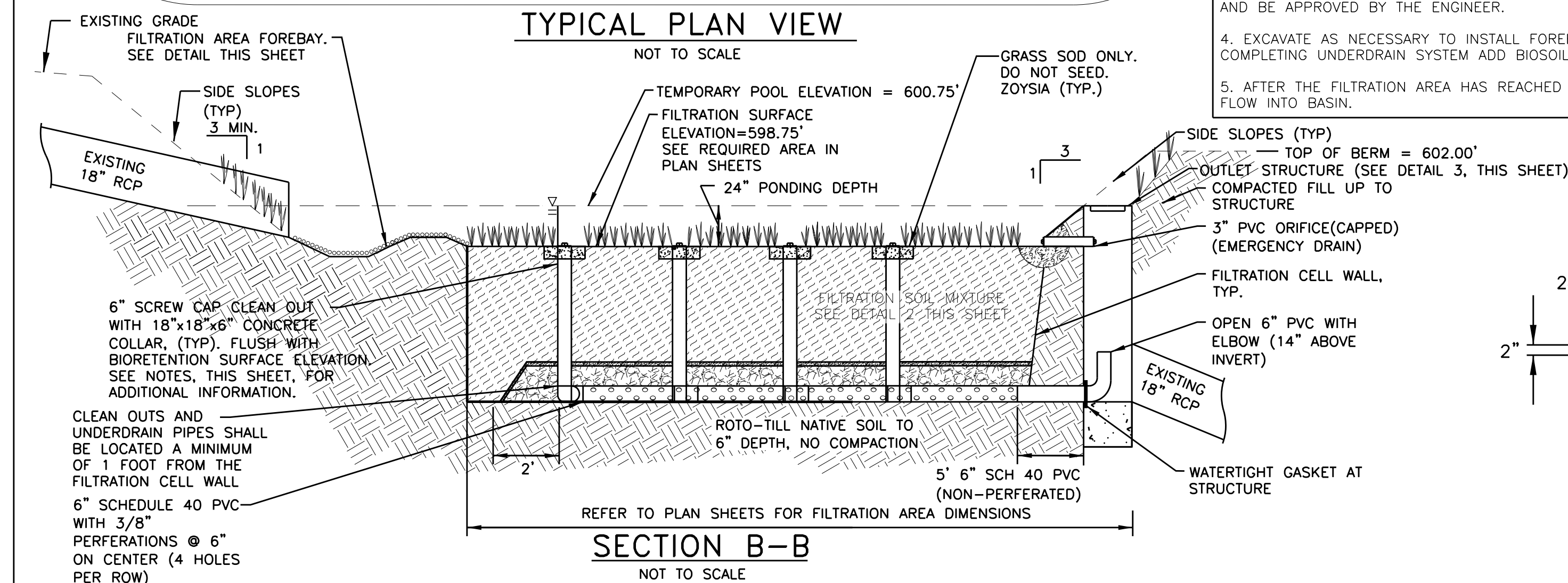
EXPOSED CLEANOUT CAP AND CONNECTORS TO BE CONSTRUCTED OF WHITE UV RESISTANT PVC MATERIAL.

GRASS SOD: SOD IS TO BE PLANTED WITHIN THE FILTRATION AREA AND ALONG THE ADJACENT SIDE SLOPES. SOD IS TO BE ZOYSIA WHICH HAS BEEN GROWN IN SANDY SOILS. LARGE DEPOSITS OF FINES ATTACHED TO THE ROOTS SHALL BE WASHED OFF OR REMOVED FROM THE SOD PRIOR TO INSTALLATION.

THE LOCATION OF FILTRATION AREA SHALL BE PROTECTED FROM EROSION AND SEDIMENT DURING SITE CONSTRUCTION. FILTRATION SOIL MIXTURE SHALL NOT BE PLACED UNTIL THE SURROUNDING SITE IS STABILIZED AND APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING FILTRATION SOIL MIXTURE IMPACTED BY SEDIMENT DEPOSITS DURING CONSTRUCTION.

FILTRATION BASIN CONSTRUCTION SEQUENCE:

1. CONSTRUCT EROSION CONTROL MEASURES.
2. MAINTAIN EXISTING SYSTEM AS NECESSARY UNTIL FILTRATION MEDIA INSTALLATION IS COMPLETE. USE TEMPORARY BYPASS CONVEYANCE AS NECESSARY. (INTENTION IS TO BYPASS FLOW THROUGH EXISTING SYSTEM UNTIL THE BASIN IS STABLE)
3. ENSURE SITE IS PROPERLY STABILIZED WITH A GOOD STAND OF ESTABLISHED VEGETATION BEFORE PROCEEDING. ALL SLOPES DRAINING TO THE FILTRATION AREA SHOULD HAVE ESTABLISHED AT LEAST 90% VEGETATED COVERAGE, AND BE APPROVED BY THE ENGINEER.
4. EXCAVATE AS NECESSARY TO INSTALL FOREBAY, RIP RAP, UNDERDRAIN SYSTEM AND BIOSOIL MIXTURE AFTER COMPLETING UNDERDRAIN SYSTEM ADD BIOSOIL MIXTURE PER THE DETAILS ON THIS SHEET.
5. AFTER THE FILTRATION AREA HAS REACHED FINAL GRADE, REMOVE PORTION OF EXISTING SYSTEM TO ALLOW FLOW INTO BASIN.



DETAIL 1: TYPICAL GRASS FILTRATION AREA

(NOT TO SCALE)

FROM -BMP- Sta. 14+49.62 to -BMP- Sta. 12+61.13

FILTRATION SOIL MIXTURE SHALL BE A MIX THAT MEETS THE FOLLOWING SPECIFICATION:

ITEM	PERCENT BY VOLUME	MATERIAL
SAND	95-97%	CONSTRUCTION SAND (ASTM C-33 SAND)
ORGANIC MATTER	3-5%	HARDWOOD MULCH/ORGANICS

FILTRATION SOIL MIXTURE (FSM): SHALL BE PLACED AND GRADED USING LOW GROUND-CONTACT PRESSURE EQUIPMENT OR BY EXCAVATORS AND/OR BACKHOES OPERATING ON THE GROUND ADJACENT TO THE FILTRATION FACILITY. NO HEAVY EQUIPMENT SHALL BE USED WITHIN THE PERIMETER OF THE FILTRATION FACILITY BEFORE, DURING, OR AFTER THE PLACEMENT OF THE FSM. THE FSM SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED 12 INCHES FOR THE ENTIRE AREA OF THE FILTRATION FACILITY. THE FSM SHALL BE COMPACTED BY SATURATING THE ENTIRE AREA OF THE FILTRATION FACILITY AFTER EACH LIFT OF FSM IS PLACED UNTIL WATER FLOWS FROM THE UNDERDRAIN. WATER FOR SATURATION SHALL BE APPLIED BY SPRAYING OR SPRINKLING. AN APPROPRIATE SEDIMENT CONTROL DEVICE SHALL BE USED TO TREAT ANY SEDIMENT-LADEN WATER DISCHARGED FROM THE UNDERDRAIN. IF THE FSM BECOMES CONTAMINATED DURING THE CONSTRUCTION OF THE FACILITY, THE CONTAMINATED MATERIAL SHALL BE REMOVED AND REPLACED WITH UNCONTAMINATED MATERIAL AT NO ADDITIONAL COST TO THE ADMINISTRATION. FINAL GRADING OF THE FSM SHALL BE PERFORMED AFTER A 24-HOUR SETTLING PERIOD. FINAL ELEVATIONS SHALL BE WITHIN 2 INCHES OF ELEVATIONS SHOWN ON THE CONTRACT PLANS.

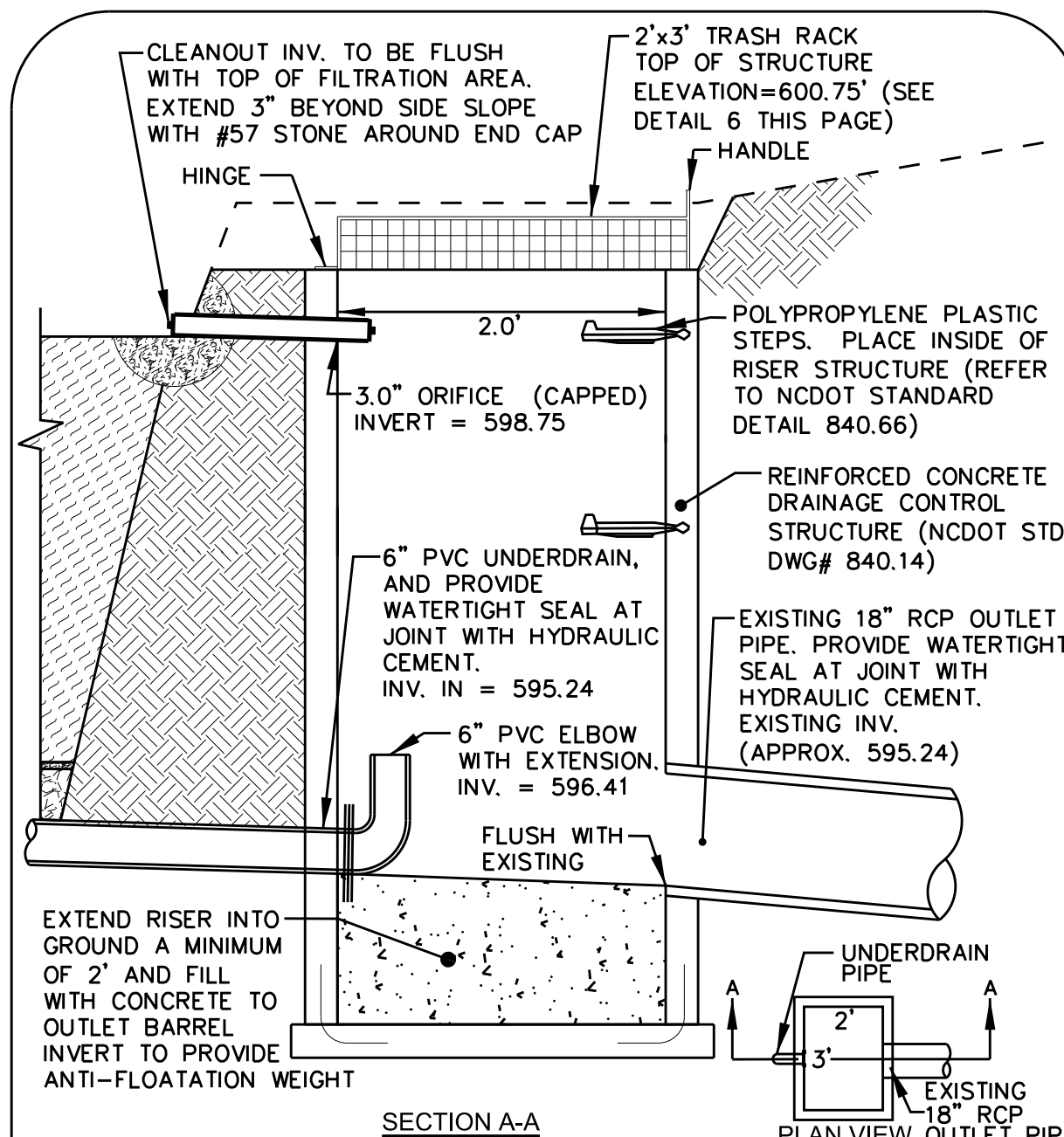
THE FILTRATION SOIL MIXTURE (FSM) SHALL HAVE A P-INDEX RANGE LESS THAN 30.

HYDRAULIC CONDUCTIVITY OF FILTRATION SOIL MIX SHALL BE BETWEEN 3.0-6.0 IN/HR.

THE FILTRATION SOIL MIXTURE (FSM) SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES EXCLUDING MULCH. NO OTHER MATERIALS OR SUBSTANCES SHALL BE MIXED OR DUMPED WITHIN THE FILTRATION AREA THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS.

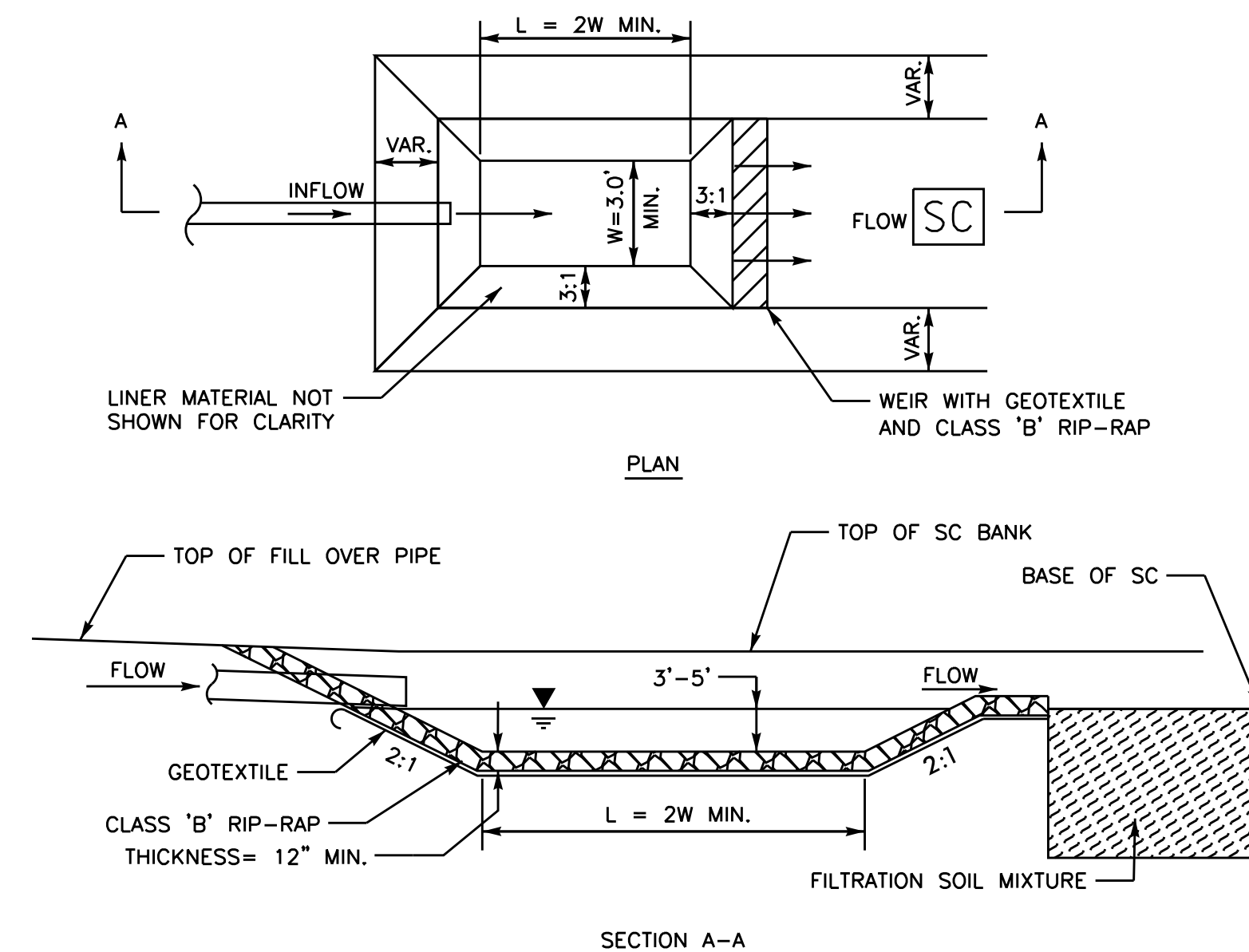
PRIOR TO PLACING THE UNDERDRAIN AND THE FSM, THE BOTTOM OF THE EXCAVATION SHALL BE ROTO-TILLED TO A MINIMUM DEPTH OF 6 INCHES TO ALLEVIATE ANY COMPACTION OF THE FACILITY BOTTOM. ANY SUBSTITUTE METHOD FOR ROTO-TILLING MUST BE APPROVED BY THE ENGINEER PRIOR TO USE. ANY PONDING WATER SHALL BE REMOVED FROM THE BOTTOM OF THE FACILITY AND THE SOIL SHALL BE FRIABLE BEFORE ROTO-TILLING.

DETAIL 2: FILTRATION SOIL MIXTURE



DETAIL 3: OUTLET STRUCTURE

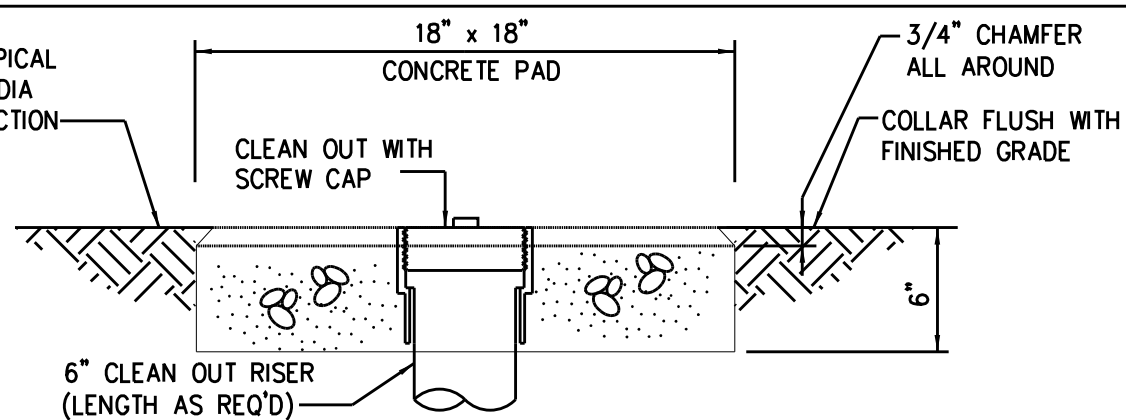
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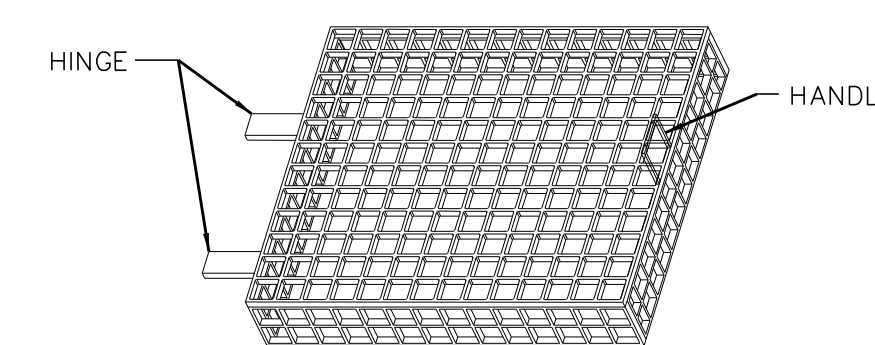
NOTES:

- 1) LINER MATERIAL TO BE SPECIFIED BY ENGINEER.
- 2) FOREBAY LAYOUT MAY BE IRREGULAR. SEE PLANS.
- 3) MODIFICATIONS MAY BE NEEDED, AS APPROVED BY ENGINEER.

DETAIL 4: FILTRATION AREA FOREBAY



DETAIL 5: 18" x 18" x 6" CONCRETE COLLAR

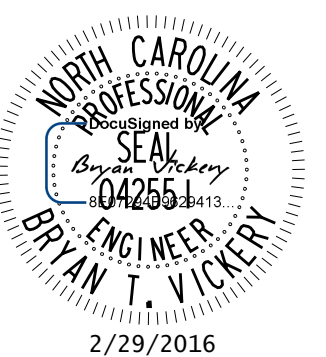


REMOVABLE TRASH RACK NOTES:

1. ALL JOINTS SHALL BE FULLY WELDED AROUND JOINT WITH A MINIMUM OF A 1/4" BEAD.
2. IF BOLTS ARE CHEMICALLY ANCHORED, FOLLOW 2012 NCDOT STD. DWG. 862.04 FOR ANCHORING PROCEDURE.
3. TRASH RACKS SHALL BE ATTACHED TO CONCRETE BOX BY HINGE OR SLIDE RAIL SYSTEM.
4. RACK AND HARDWARE SHALL BE ALUMINUM OR GALVANIZED IN ACCORDANCE WITH ASTM 153.
5. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF THE PROPOSED TRASH RACKS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.

DETAIL 6: REMOVEABLE TRASH RACK

(NOT TO SCALE)



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
0000100000	800	MOBILIZATION	1	L.S.
0000400000	801	CONSTRUCTION SURVEYING	1	L.S.
0022000000	225	UNCLASSIFIED EXCAVATION	3925	C.Y.
	SP	FILTREATION SOIL MIXTURE	775	C.Y.
	SP	CONCRETE COLLAR	10	EA.
	SP	#8 STONE	110	TON
1077000000	SP	#57 STONE	425	TON
2275000000	SP	FLOWABLE FILL	7	C.Y.
0995000000	340	PIPE REMOVAL	59	L.F.
	SP	6" UNDERDRAIN PIPE - PERFORATED	475	L.F.
	SP	6" UNDERDRAIN PIPE - NON-PERFORATED	5	L.F.
	SP	6" PVC CLEANOUT	30	L.F.
	SP	3" PVC, SCHEDULE 40	7	L.F.
	SP	REMOVABLE TRASH RACK	1	EA.
	SP	ANTI-FLOTATION CONCRETE	1	C.Y.
2286000000	840	MASONRY DRAINAGE STRUCTURES	1	EA.
2308000000	840	MASONRY DRAINAGE STRUCTURES	3	L.F.
3649000000	876	RIP RAP, CLASS B	60	TON
3656000000	876	GEOTEXTILE FOR DRAINAGE	385	S.Y.
6000000000	1605	TEMPORARY SILT FENCE	600	L.F.
6006000000	1610	EROSION CONTROL STONE, CLASS A	105	TON
6009000000	1610	EROSION CONTROL STONE, CLASS B	25	TON
6012000000	1610	SEDIMENT CONTROL STONE	25	TON
6036000000	1631	MATTING FOR EROSION CONTROL	5625	S.Y.
6042000000	1632	1/4" HARDWARE CLOTH	50	L.F.
6084000000	1660	SEEDING AND MULCHING	0.5	ACR.
6102000000	1664	SODDING	2250	SY
6105000000	1664	WATER	50	M/G
6657000000	SP	TRANSPLANT TREES, SHRUBS & PLANTS	2	EA.
	SP	TRAFFIC CONTROL	1	L.S.

*SEE SHEET 3-A FOR DRAINAGE QUANTITIES SUMMARY

REVISIONS

2/29/2016

Kimley»Horn

P.O. BOX 33068 • RALEIGH, N.C. 27636-3068

RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.

R-4436GH

SHEET NO.

5

R/W SHEET NO.

HYDRAULIC DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL

04255

ENGINEER

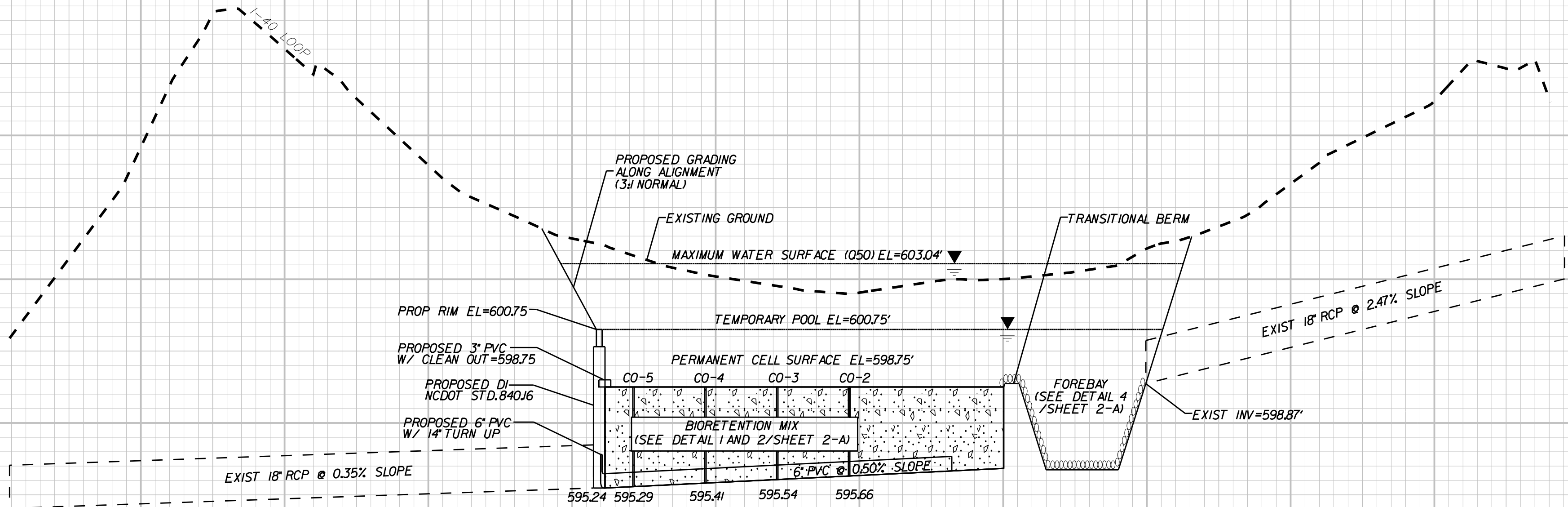
BRYAN T. VICKERY

1/29/2016

DOCUMENT NOT CONSIDERED FINAL





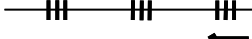















UNLESS ALL SIGNATURES COMPLETED

-BMP-



SEE SHEET 4 FOR PLAN VIEW

TOTAL IMPACT AREA (SHADED) = 0.50 ACRES

<u>Std. #</u>	<u>Description</u>	<u>Symbol</u>
	Reforestation	
1630.03	Temporary Silt Ditch	
1650.05	Temporary Diversion	
1605.01	Temporary Silt Fence	
1622.01	Temporary Berms and Slope Drains	
1630.01	Silt Basin Type A	
1650.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
1633.02	Temporary Rock Silt Check Type-B	
1634.01	Temporary Rock Sediment Dam Type-A	
1654.02	Temporary Rock Sediment Dam Type-B	
1655.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1656.01	Rock Silt Screen	
1650.04	Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	 OR 
1632.02	Type B	 OR 
1632.03	Type C	 OR 